



# Georgia

## Biobased Fuels, Power, and Products

### State Fact Sheet

#### Growing a Cleaner, Stronger Economy in Georgia

Georgia has a total installed biomass capacity of 910 MW. Urban and mill residues and energy crops provide the largest source of biomass energy capacity in the state, along with agriculture residues, municipal solid waste (MSW), and landfill gas. An estimated 23.4 billion kWh of electricity could be generated using renewable biomass fuels in Georgia.

Sixteen Georgia electric cooperatives have begun selling biopower to their customers. Supplied by Green Power Electric Membership Corporation (EMC), the green power comes from three new landfill methane projects, with new sources to be added later. To help increase Georgia's usage of MSW for energy, the Georgia Environmental Facilities Authority (GEFA) offers low-interest loans for solid waste capital partners.

Georgia also offers a corporate and personal tax credit against the purchase of a clean-fueled vehicle – including low-emission vehicles that run on alternative fuels – or the conversion of a vehicle to have a clean-fuel burning capacity.

#### Biobased Fuels, Power, and Products in Georgia

Bio-Industry	Sales (\$1,000)	Employees	Capacity	Number of Facilities
Power	210	3,649	910 MW	49
Fuels	N/A	N/A	N/A	0
Products	N/A	35	- -	3

N/A - no information available

- - Comparative capacity data not available among products

#### Federal R&D Partners

Agricultural Research Service  
(Athens, Tifton)

Carbona Corporation  
(Atlanta)

EnerTech Environmental Inc.  
(Atlanta)

Fort Valley State College  
(Fort Valley)

Georgia Institute of Technology  
(Atlanta)

Georgia Pacific  
(Atlanta)

Inland Paperboard  
(Rome)

Institute of Paper Science and Technology  
(Atlanta)

#### Biomass Resources

**Corn:** 265,000 acres planted  
29,480,000 bushels produced

**Soybeans:** 165,000 acres planted  
4,185,000 bushels produced

**Wheat:** 300,000 acres planted  
10,600,000 bushels produced

**CRP:** 285,562 acres enrolled

**MSW:** 10,236,000 tons generated

**Forest Land:** 24,405,000 acres

**Poultry:** 1,268,294,000 head

**Livestock:** 1,585,000 head



## Federally Funded Biomass RD&D in Georgia

Select a project  
title for details

### U.S. Department of Energy

- Gaylord Biomass Gasification Demonstration
- Co-Utilization of Coal with E-Fuel from EnerTech's Slurry Carb Process
- Stability and Regenerability of Catalysts for the Destruction of Tars from Biomass and Black Liquor
- Catalysts for the Destruction of Tars in Gasification
- Gasification of Solid Wood Wastes for Use to Co-Fire an Existing Stoker Boiler
- Development of Materials for Gasification
- Demonstration of Black Liquor Gasification at Big Island
- Accelerated Stem Growth Rates and Improved Fiber Properties of Loblolly Pine
- Search for Genes to Accelerate Pine Development
- Vermont Gasification

### U.S. Department of Agriculture

- Improvement of Camellia oleifera for Ornamental and Oil Uses
- Development of a Biobased Air Pollution Control Technology for Remediation of Volatile, Hazardous, and Odorous Compounds in Agriculture Industries
- Oil-Based Methyl Esters for Potential Use as Diesel Lubricity Additive, Biodiesel and Green Solvent
- Studies in Agricultural Biotechnology in the Plant Sciences for Improved Crop Production
- Development of Room Temperature Curing Copolymer Resins from Biomass Components for Wood Laminating
- Multiple Scale Assessment, Analysis, Modeling, and Remediation of Water Quality in Agricultural Watersheds
- Effects of Forest Management on Loblolly Pine Carbon and Nutrient Allocation
- Behavior of Biopolymers in Structuring Food Products: Design of Novel Food Ingredients
- Fate and Utilization of Waste-Derived Nutrients in Plantation Forests
- Physiological Mechanisms Controlling the Growth and Productivity of Managed Forests
- Enhancing Soil-Water-Nutrient Processes in Southern Piedmont Pasture and Crop Systems
- Cover Crop Mixtures for Improving Soil and Water Quality and Vegetable Yield
- Optimizing Biogeochemical Processes for Agroecosystems

### Federal R&D Partners (Continued)

IPST  
(Atlanta)  
University of Georgia  
(Athens)

**For additional information on  
RD&D Projects, please click on  
the project title**

**For additional information on  
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